

GENERAL

Rated power: 4kVA, 5kVA, 6kVA, 8kVA, 10kVA, 12kVA with a power factor of 0.7
Technology: True on-line, double conversion topology with integral automatic bypass

INPUT

Phase: Single phase plus ground
Input Bypass Voltage: 184 - 265 VAC (+15% to -20% of 230V nominal - user selectable)
Input Voltage range: 120 / 140 / 160 / 180VAC - 276 VAC
(120V - 276V @ 25% load, 140V - 276V @ 50% load, 160V - 276V @ 75% load, 180V - 276V @ 100% load)
Frequency: 50 / 60 Hz Auto-sensing
AC Frequency range: 45 - 65 Hz
Synchronization range: ± 3 Hz
Input Current: 4kVA - 15A, 5kVA - 19A, 6kVA - 23A, 8kVA - 30A, 10kVA - 38A, 12kVA - 46A
Input Power factor: 0.97

OUTPUT

Output Voltage: 208 / 220 / 230 / 240 VAC (user selectable)
Voltage regulation: $\pm 2\%$
Voltage distortion: $< 5\%$ THD with non-linear loads, $< 3\%$ THD with linear loads
Frequency regulation: ± 0.25 Hz (while on battery or in free run mode)
Dynamic response: $\pm 9\%$ max from 100% to 20% or from 20% to 100% linear load
Overload capacity: 100 - 125% for 1 min, 126 - 150% for 10 sec
Efficiency (HE Mode): Greater than 95%
Efficiency (On-line Mode): Greater than 88%
Crest Factor: 3 : 1

ENVIRONMENTAL

Ambient temperature range: +32 °F to +104°F (+0 °C to +40 °C)
Optimum temperature range: +59 °F to +77°F (+15 °C to +25 °C)
Storage temperature: +5 °F to +122°F (-15 °C to +50 °C)
Cooling: Forced air cooling
Humidity: 0-95%, non-condensing
Elevation: 10,000 feet max (operation), 45,000 feet (storage)
Audible noise: < 55 db normal and battery mode (4000-8000 VA models)
 < 55 db normal and battery mode (10000-12000 VA models)

STANDARDS

Safety: EN50091-1-1
Emissions: EN50091-2 class B
Immunity: EN50091-2
Conformity: UL 1778, CSA 107.1, 107.2, CE
Transient Immunity: Per IEEE C 61000-4-5 level 3

Tower Models

Model Number	VTWE-4000-02	VTWE-5000-02	VTWE-6000-02	VTWE-8000-02	VTWE-10000-02	VTWE-12000-02
Capacity	4kVA / 2.8kW	5kVA / 3.5kW	6kVA / 4.2kW	8kVA / 5.6kW	10kVA / 7kW	12kVA / 8.4kW
Input Connection	Hardwire Terminal Block or Fixed		Hardwire Terminal Block and/or various IEC Receptacles			
Output Connection Options	IEC 320 10A and 16A IEC and NEMA L6-30R IEC and Shuko (European)		Hardwire Terminal Block and/or various IEC Receptacles Hardwire Terminal Block and/or various NEMA Receptacles Hardwire Terminal Block and/or various European Receptacles			
Battery Type & Rating	Sealed, lead-acid 7.2Ah/12V	Sealed, lead-acid 9Ah/12V	Sealed, lead-acid 7.2Ah/12V	Sealed, lead-acid 7.2Ah/12V	Sealed, lead-acid 9Ah/12V	Sealed, lead-acid 7.2Ah/12V
Battery Quantity	10	10	20	20	20	40
Backup Time (full load)	6 min	6 min	7 min	5 min	6 min	5 min
Recharge Time	<4 hours to 90 %					
Dimensions in / mm W x D x H	10.1 x 21.1 x 17.3 257 x 537 x 440		10.2 x 27.6 x 27.6 258 x 700 x 700	10.2 x 27.6 x 27.6 258 x 700 x 700		13.5 x 27 x 34.6 342 x 690 x 878
Weight lbs. / kg	95 / 43		176 / 80	189 / 86		286 / 130

19" Rack Mount Models

Model Number	VRTE-4000-02	VRTE-5000-02	VRTE-6000-02	VRTE-8000-02	VRTE-10000-02	VRTE-12000-02
Capacity	4kVA / 2.8kW	5kVA / 3.5kW	6kVA / 4.2kW	8kVA / 5.6kW	10kVA / 7kW	12kVA / 8.4kW
Input Connection	Hardwire Terminal Block or Fixed					
Output Connection Options	Hardwire Terminal Block and various IEC Receptacles Hardwire Terminal Block and various NEMA Receptacles Hardwire Terminal Block and various European Receptacles					
Battery Type & Rating	Sealed, lead-acid 5Ah/12V	Sealed, lead-acid 5Ah/12V	Sealed, lead-acid 7.2Ah/12V	Sealed, lead-acid 7.2Ah/12V	Sealed, lead-acid 9Ah/12V	Sealed, lead-acid 9Ah/12V
Battery Quantity	10*	10*	20**	20**	20**	40**
Backup Time (full load)	4 min	3 min	7 min	5 min	6 min	5 min
Recharge Time	<4 hours to 90 %					
Dimensions in / mm W x D x H	16.9 x 25.9 x 10.3 428 x 657 x 260		16.9 x 23.6 x 10.3 428 x 597 x 260	16.9 x 25.9 x 10.3 428 x 657 x 260		
Weight lbs. / kg	88 / 40		189 / 86	203 / 92		

*4kVA and 5kVA models have internal batteries.

**6kVA, 8kVA, 10kVA and 12kVA models have external batteries.